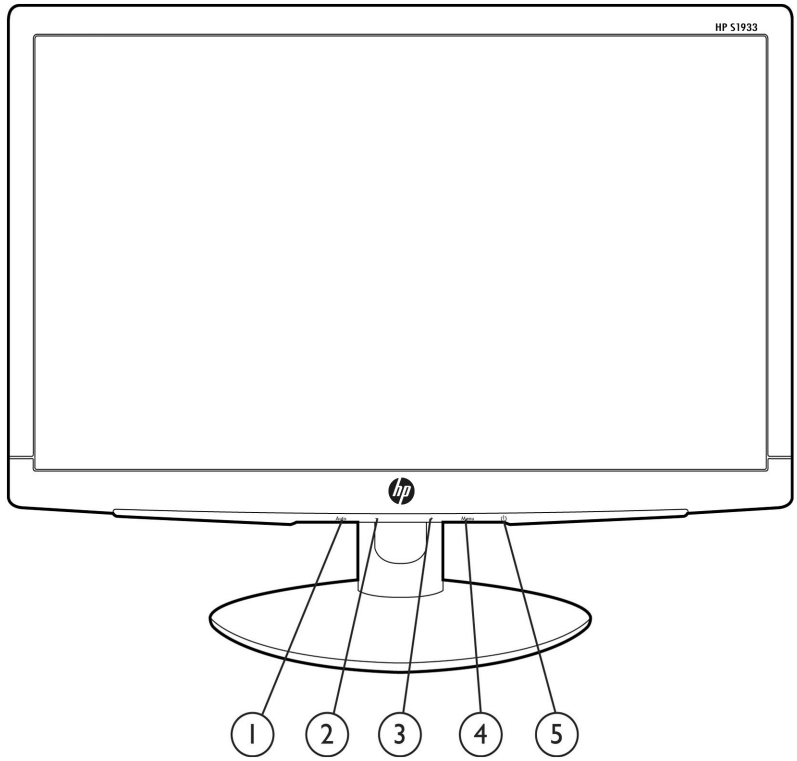
*Overview*




1. Auto: To utilize the auto-adjustment feature, press the key and release it immediately. To use input source selection function, press and hold the key for 3 seconds (multi-source models).
2. "-": Navigates backward through the OSD menu and decreases adjustment levels.
3. "+": Navigates forward through the OSD menu and increases adjustment levels.
4. Menu: Opens, selects, or exits the OSD menu.
5. Power: Turns the monitor on or puts it in standby or sleep mode. The Power button is located on the bottom or front of the monitor depending on the model.

## Model

XJ311AA

*Technical Specifications*

| | | |
|---|---|---|
| Panel | Type | **47,0 cm** (18.5-in.) Wide-Aspect Active Matrix TFT (thin film transistor) |
| | Viewable Image Area (diagonal) | **47,0 cm** (18.5 in.) widescreen; diagonally measured |
| | Screen Opening (W x H) | **40,9 x 23 cm** (16.1 x 9.05 in ) |
| | Panel Type | TN |
| | Aspect Ratio | 16:9 |
| | Viewing Angle (typical) | Up to 90° horizontal/55° vertical (10:1 minimum contrast ratio) |
| | Brightness (typical)* | 200 nits (cd/$m^2$) |
| | Contrast Ratio (typical)* | 600:1 |
| | Dynamic Contrast Ratio (typical)* | 5,000:1 |
| | Response Time (typical)* | 5 ms (on/off) |
| | Pixel Pitch | 0.3 mm |
| | Backlight Lamp Life (to half brightness) | 50,000 hours |
| | Color Support** | Up to 16.7 million colors |
| | Color Gamut | 57% |
| | *All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.<br>** With the use of FRC technology. | |
| On Screen Display (OSD) Controls | Buttons or Switches | Power / Auto / Menu / + / - |
| | Languages | (8), English, Spanish, French, Portuguese, Russian, Simplified Chinese, Traditional Chinese, Korean |
| | User Controls | Brightness, contrast, positioning, color temperature (warm, normal, cool, user SRGB), individual color control, ECO viewing modes, image ratio, clock, clock phase, DDC/CI, reset, language |
| Signal Interface/ Performance | Horizontal Frequency | 30 to 83 KHz |
| | Vertical Frequency | 55 to 75 Hz |
| | Native Resolution | 1366 x 768 @ 60 Hz |
| | Preset VESA Graphic Modes (non-interlaced) | 1280 x 1024 @ 60 Hz<br>1280 x 960 @ 60 Hz<br>1280 x 720 @ 60 Hz<br>1024 x 768 @ 60 Hz<br>800 x 600 @ 60 Hz<br>720 x 400 @ 70Hz<br>640 x 480 @ 60 Hz |
| | Text Mode | 720 x 400 @ 70 Hz |
| | Maximum Pixel Clock Speed | 140 MHz |
| | User Programmable Modes | Yes (10) |
| | Anti-Glare | Yes |

*Technical Specifications*

| | | | |
|---|---|---|---|
| | Anti-Static | Yes | |
| | Default Color Temperature | Warm (6500 K) | |
| Video/Other Inputs | Plug and Play | Yes | |
| | Input Connectors | VGA (analog) | |
| | Input Impedance | 75 Ohms | |
| | Sync Input | TTL separate synch | |
| | Video Cable | One 15-pin D-sub (VGA) | |
| | Video Cable Lengths | VGA cable 1,8m (6.0 ft) | |
| Power | Input Power | 100 – 265 VA40C, 50 or 60 Hz | |
| | Typical Power Consumption | 23 W | |
| | Maximum | 37 W | |
| | Power Saving | < 1 W | |
| | Power Cable Length | 1,9 m (6.2 ft.) | |
| Mechanical | Dimensions (H x W x D) | Unpacked w/stand | 34,1 x 44,0 x 18,0 cm, (13.43 x 17.32 x 7.09 in.) |
| | | Unpacked w/o stand (head only) | 27.7 x 44.0 x 5.1cm, (10.91 x 17.32 x 2.01 in.) |
| | | Packaged | 48,8 x 34,9 x 12,2 cm, (19.21 x 13.74 x 4.80 in |
| | Weight | Head Only | 2.7 kg (5.95 lb) |
| | | Unpacked | 3.2 kg (7.05 lb) |
| | | Packaged | 4.7 kg (10.36 lb) |
| | Tilt Range | -4° to +18° | |
| | Swivel Range | No | |
| | Height Adjustable | No | |
| | Pivot Rotation | No | |
| | Base | Attachable, ships detached | |
| Environmental | Temperature – Operating | 5° to 35° C (41° to 95° F) | |
| | Temperature – Non-operating | -20° to 60° C (-4° to 140° F) | |
| | Humidity – Operating | % to 90% non-condensing | |
| | Humidity - Non-operating | 5% to 90% | |
| | Altitude – Operating | +0 to 3,658 m (12,000 ft) | |
| | Altitude – Non-operating | +0 to 12,192 m (40,000 ft) | |
| Environmental Data | Eco-Label Certifications & declarations | This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:<br>• IT ECO declaration | |

| Energy Consumption (in accordance with US Energy Star test method) | 115VAC, 60Hz | 230VAC, 50Hz | 100VAC, 60Hz |
|---|---|---|---|
| Normal Operation | 18W | 17.8W | 18.1W |
| Sleep | 0.44W | 0.53W | 0.44W |

| | | | |
|---|---|---|---|
| Off | 0.42W | 0.42W | 0.42W |

| Heat Dissipation* | 115VAC, 60Hz | 230VAC, 50Hz | 100VAC, 60Hz |
|---|---|---|---|
| Normal Operation | 62 BTU/hr | 61 BTU/hr | 62 BTU/hr |
| Sleep | 2 BTU/hr | 2 BTU/hr | 2 BTU/hr |
| Off | 1 BTU/hr | 1 BTU/hr | 1 BTU/hr |

* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

**Additional Information**

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive – 2002/95/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 0% post-consumer recycled plastic (by wt.)
- This product is 98.0% recycle-able when properly disposed of at end of life.

**Packaging Materials**

| | | |
|---|---|---|
| External: | Corrugated carton | 677g |
| Internal: | Polyethylene low density | 22g |
| | EPS (Expanded polystyrene) | 140 g |

**RoHS Compliance**

Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. By July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

**Material Usage**

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at: http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries

- Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

**Packaging**

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

**End-of-life Management and Recycling**

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

**Hewlett-Packard Corporate Environmental Information**

For more information about HP's commitment to the environment:

Global Citizenship Report
http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
Eco-label certifications
http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html
ISO 14001 certificates:
http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html

## Options

**HP LCD Monitor Quick**

An easy-to-use, VESA-compliant, LCD monitor mounting solution that allows

| | | |
|---|---|---|
| | Release—Part number EM870AA* | you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpecs document. |
| | * The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) for all devices mounted. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads. | |
| | HP USB Graphics Adapter—Part number NL571AA | Enables connection of up to six simultaneous displays to help you boost productivity and multi-task across several open applications. Use one Adapter to bridge between a notebook or desktop PC and second monitor or use multiple Adapters to connect several displays to each other. |
| | HP Business PC Security Lock Kit—Part number PV606AA | Attaches to the rear of the PC with a six-foot steel cable that can be used to secure a PC or peripherals such as mice, keyboards, monitors or USB security devices to protect them against unauthorized removal by physically connecting the system to an anchor point. |
| Other | Accessories Included | A/C power cable 1,9m (6.2 ft), VGA cable 1,8m (6.0 ft) |
| | Software | Yes (CD with Auto-Adjustment, monitor drivers, install PDF) |
| | User Guide Languages | English, Spanish, Portuguese, French |
| | Warranty Languages | English, Spanish, Portuguese, French |
| | Color | Black |
| | VESA External Mounting | Yes (one set of standard 4-hole pattern, 100 mm). |
| | Security Lock-Ready | Yes |
| Certification and Compliance | CISPR Requirements, Approvals, Requirements, CSA 60950-1, UL 60950-1, EN55022 Class B, CNS 13438 Class B, IEC 60950-1, FCC Part 15 class B Approval, EN55024 Class B, Microsoft® Windows® XP, Windows Vista®, Windows® 7 | |
| Compatibility | Recommended for use with HP products | |
| Service and Warranty | Protected by HP, including a 3 years parts, 3 years labor, and 3 years onsite service (3/3/3) standard limited warranty. Certain restrictions and exclusions apply. | |

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